

Ref. 2

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 07245519 A

(43) Date of publication of application: 19.09.95

(51) Int Cl

H01Q 3/26

(21) Application number: 06036069

(22) Date of filing: 07.03.94

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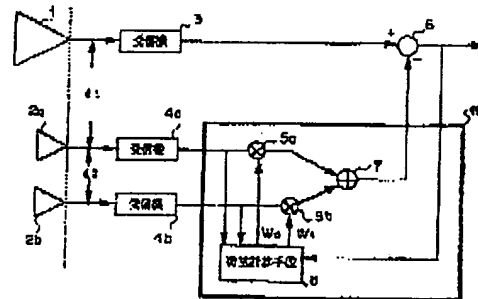
(54) SIDE LOBE CANCELLER

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(57) Abstract:

PURPOSE: To obtain the side lobe canceller with simple configuration in which interference wave suppression performance is secured without being affected by an incident direction of 1st and 2nd interference waves

CONSTITUTION: The canceller is provided with a main antenna 1, 1st and 2nd auxiliary antennas 2a, 2b, an adaptive filter 10 receiving a reception signal from the 1st and 2nd auxiliary antennas 2a, 2b, and a subtractor means 6 providing an output of a difference signal between the reception signal of the main antenna 1 and an output signal of the adaptive filter 10. Then the phase center of the main antenna 1 and that of the 1st and 2nd auxiliary antennas 2a, 2b are set on the same line, let the distance between the phase center of the main antenna 1 and that of the 1st auxiliary antenna 2a be d_1 , the distance between the phase centers of the 1st and 2nd auxiliary antennas 2a, 2b be d_2 , (n) be a natural number, and then the antennas are arranged based on a ratio of the d_1 to the d_2 to be $n:1$.



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